



1. Introduction

We collected ratings for 24.038 Dutch words for gender ladenness. Every word was rated by an equal number of men and women. Every participant rated one of four lists, ca. 6000 words. We checked the relation with other variables, and how much of the variance can be explained by a spatial semantic representation based on word associations.

2. Method

2.1. Participants

80 payed psychology students.

2.2. Materials

- 24.038 words from the Dutch Lexicon Project 2 (Brysbaert, Stevens, Mandera, & Keuleers, 2016). Excluding words not known not known by 2/3th of participants and excluding some function words.
- Norms for valence, arousal, and Dominance (Moors et. al., 2013) (4045 overlapping words with the list we used).
- Norms for concreteness and AoA (Brysbaert, Stevens, De Deyne, Voorspoels, & Storms, 2014).
- Dutch word associations for +12.000 words (De Deyne, Navarro, & Storms, 2012).

2.3. Procedure

- 4 random lists of 6.017 words (including 10 calibrator words).
- Each list rated by 10 male and 10 female participants. Each list was randomized and rated on a five-point Likert scale.
- Each list started with 10 calibrator words that ranged over the full scale (based on previous gender ratings we collected).

3. Results

2.1. Reliability

Average Spearman-Brown corrected split half correlations (10.000 random splits of the participants):

List	Male	Female	Both
1	.876	.911	.944
2	.876	.901	.941
3	.894	.895	.943
4	.879	.879	.933

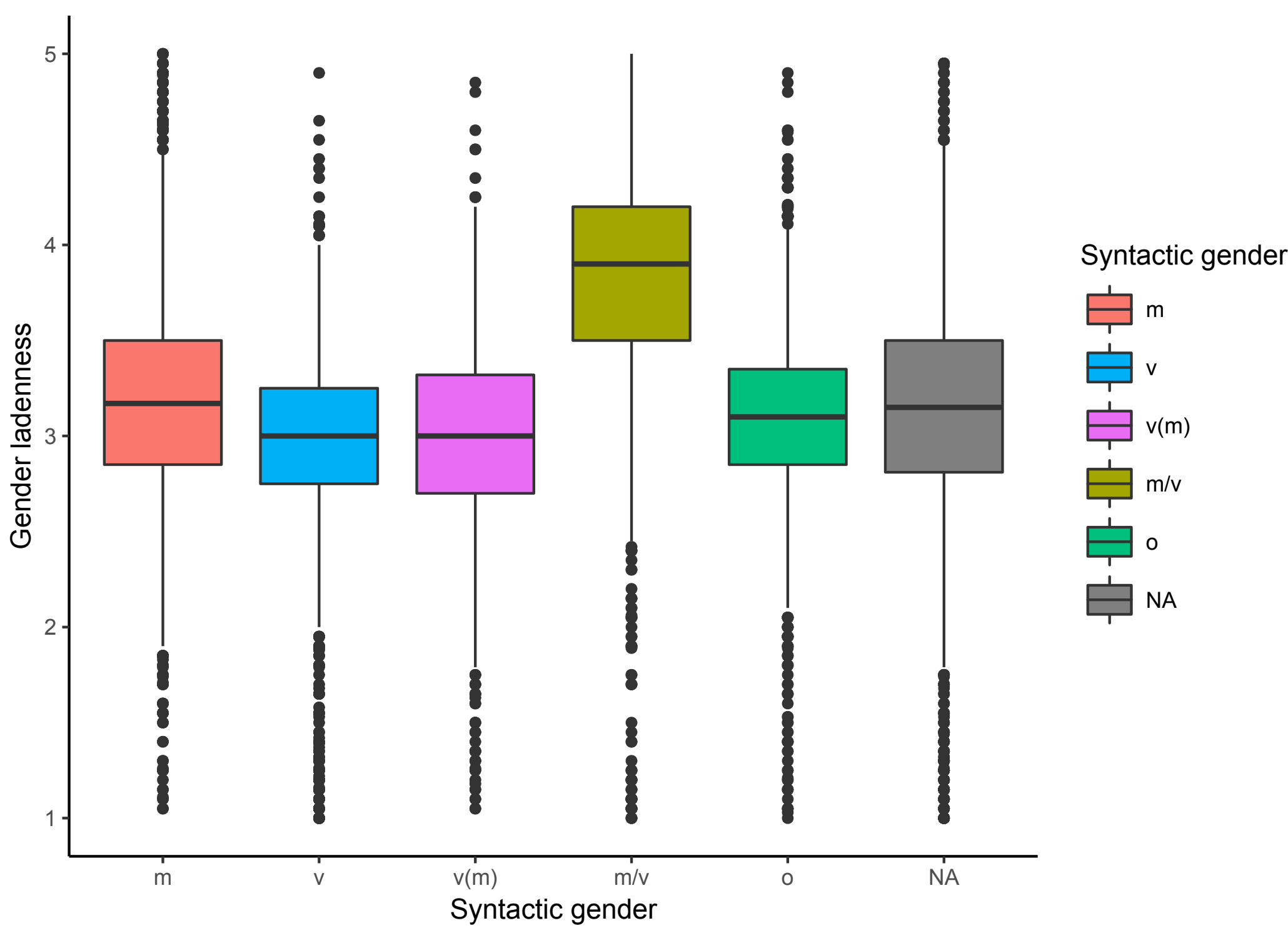
2.2. Validity

Correlations of the overlap between our word list and gender ratings collected by Clark, Paivo (2004), and Jenkins, Russel, Suci (1958):

Measure	1	2	3	4
1. Our	-			
2. CP1	.755	-		
3. CP2	.743	.954	-	
4. JRS	.801	.867	.855	-

Note, however, that these words list were translated (original in English).

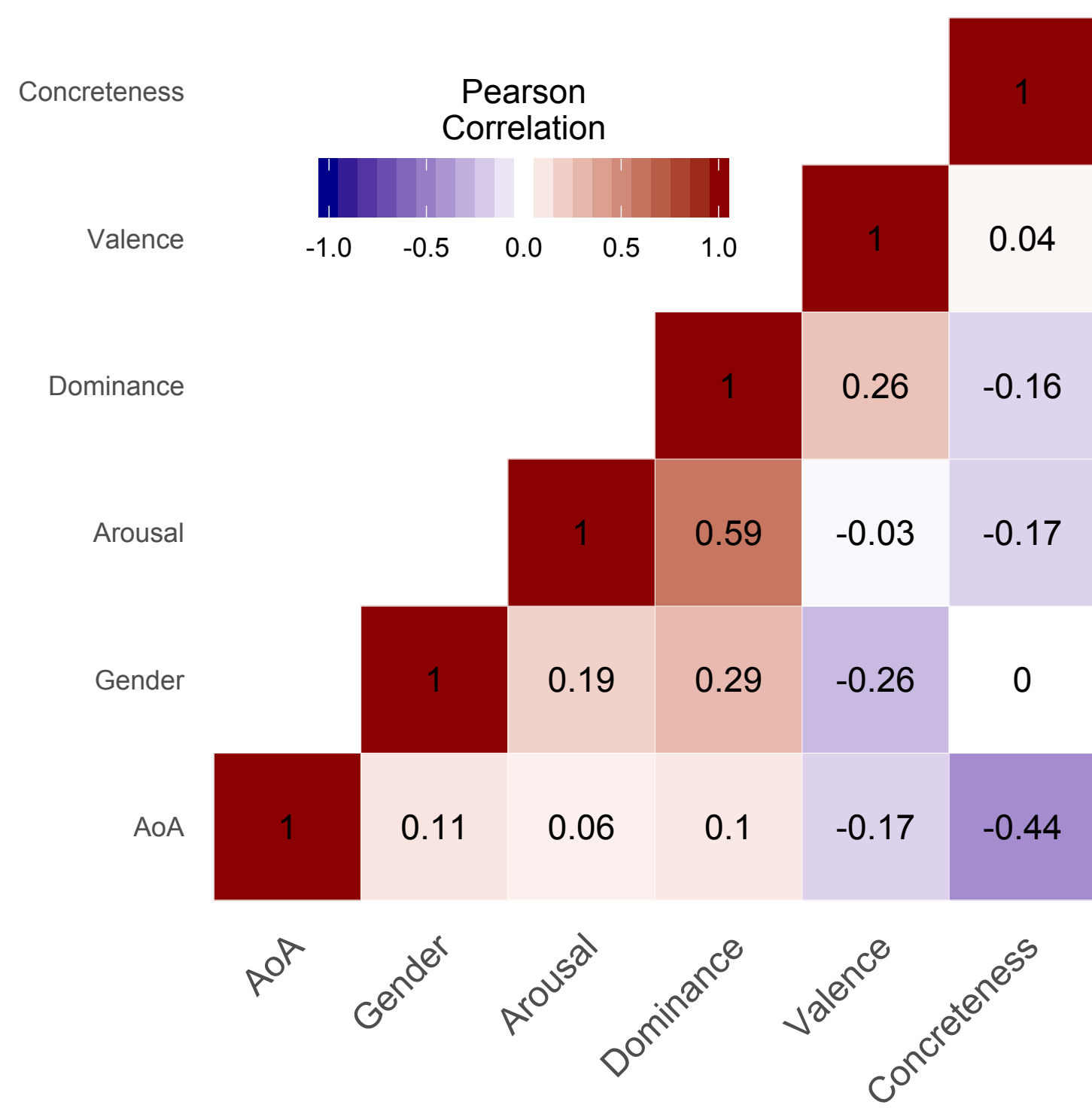
Relation gender ladenness and syntactic gender:



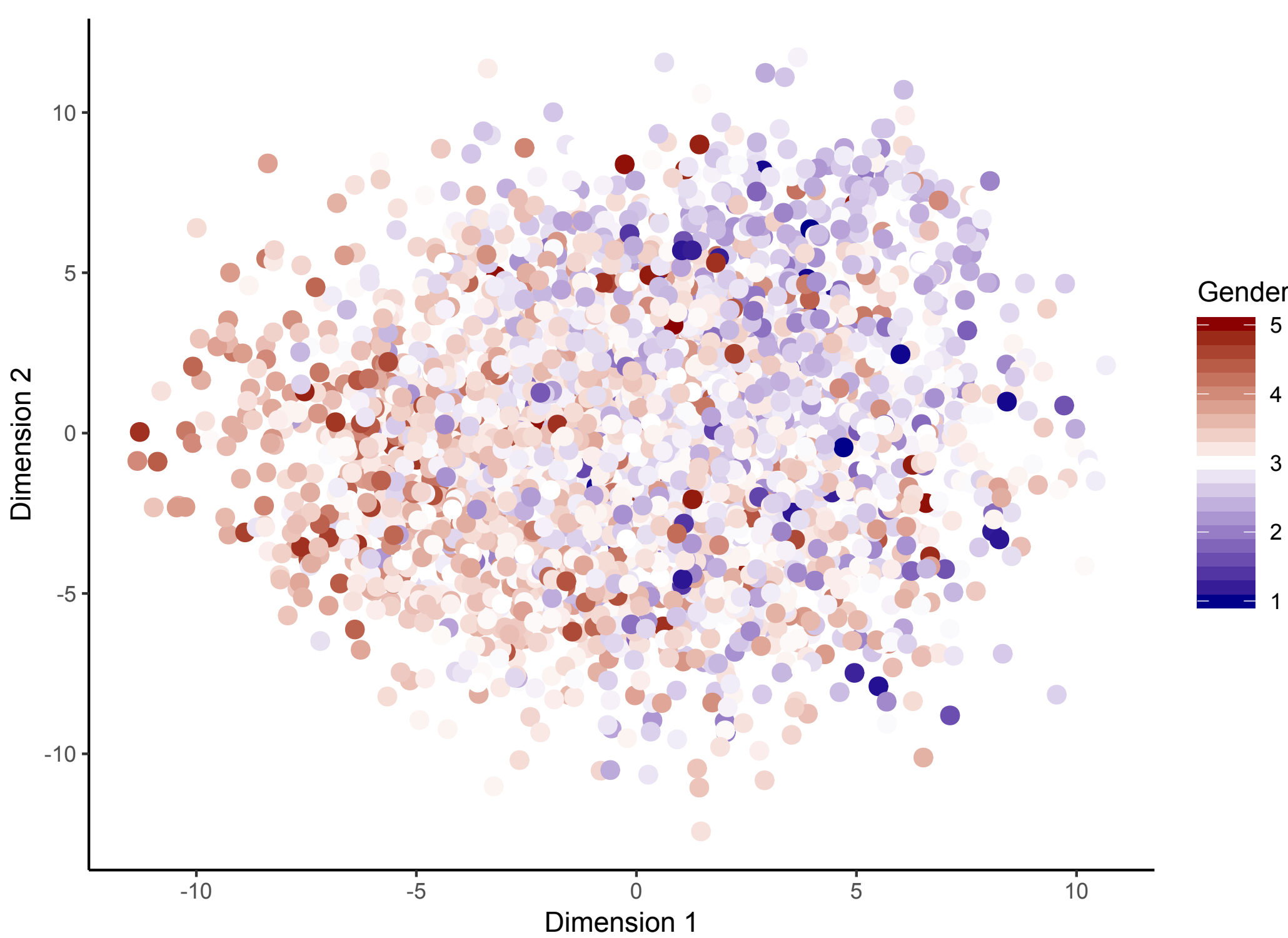
m = male, v = female, o = neutral

Correlation m and v with gender ratings (n = 4762): .24 (p < .001)

2.3. Relation with other variables



2.3. Gender in a 30 dimensional semantic space



- Only the first 2 dimensions are shown.
- 30 dimensional MDS configuration based on word associations.
- Profit in this space resulted in an R^2 of .49 for gender, which is similar to that of AoA ($R^2 = .52$). (Vankrunkelsven, Verheyen, De Deyne, & Storms, 2015)

References

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Further Information

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